

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:49:57 ; Search time 27.76 Seconds  
(without alignments)  
38.812 Million cell updates/sec

Title: US-09-331-631A-22\_COPY\_25\_84  
Perfect score: 350  
Sequence: 1 EDDNHHHGHKSGQCVRRG.....EKROERSRHEADRSGEGSS 60

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 174772 seqs, 17957048 residues

Total number of hits satisfying chosen parameters: 174772

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_Aa:\*  
1: /cgn2\_6/ptodata/2/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/2/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/2/1aa/6\_COMB.pep:\*  
4: /cgn2\_6/ptodata/2/1aa/PCTUS\_COMB.pep:\*  
5: /cgn2\_6/ptodata/2/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	71	20.3	587	1	US-07-955-905A-23
2	70	20.0	2337	3	US-08-713-118-2
3	70	20.0	2337	3	US-08-452-007-2
4	67.5	19.3	432	2	US-08-933-750C-47
5	67.5	19.3	432	3	US-09-234-613-47
6	67	19.1	566	1	US-07-955-905A-2
7	67	19.1	566	1	US-07-955-905A-22
8	66	18.9	2237	1	US-08-455-543A-48
9	66	18.9	2237	2	US-08-223-305C-48
10	66	18.9	2339	1	US-08-455-543A-47
11	66	18.9	2339	2	US-08-223-305C-47
12	64.5	18.4	797	3	US-09-086-912-2
13	63.5	18.1	2509	2	US-08-149-097D-35
14	62.5	17.9	3077	5	5223423-2
15	61.5	17.6	401	3	US-09-089-879-2
16	61.5	17.6	413	3	US-09-089-879-7
17	61.5	17.6	413	3	US-09-089-879-9
18	61	17.4	1898	3	US-08-056-200-94
19	61	17.4	1898	2	US-08-800-644-94
20	60.5	17.3	34	2	US-08-822-561-1
21	60.5	17.3	186	2	US-08-557-309B-43
22	60.5	17.3	186	3	US-08-834-306-43
23	60	17.1	220	4	PCT-US95-03236-36
24	59	16.9	76	1	US-08-253-155A-28
25	59	16.9	77	1	US-08-253-155A-47
26	59	16.9	83	1	US-08-253-155A-38
27	59	16.9	162	1	US-08-244-557-2
28	59	16.9	386	3	US-08-895-707-7

29	59	16.9	434	1	US-08-337-602-2	Sequence 2, Appl
30	59	16.9	434	3	US-08-558-135-2	Sequence 2, Appl
31	59	16.9	450	2	US-08-665-037-2	Sequence 2, Appl
32	59	16.9	450	2	US-08-666-067-2	Sequence 2, Appl
33	59	16.9	450	2	US-08-732-870-2	Sequence 2, Appl
34	58.5	16.7	1456	1	US-08-026-138E-8	Sequence 8, Appl
35	58.5	16.7	1482	1	US-08-026-138E-2	Sequence 8, Appl
36	58	16.6	763	1	US-08-473-122-2	Sequence 2, Appl
37	58	16.6	763	2	US-08-472-478-2	Sequence 2, Appl
38	58	16.6	763	2	US-08-463-081B-8	Sequence 8, Appl
39	58	16.6	763	2	US-08-461-379A-8	Sequence 8, Appl
40	58	16.6	763	2	US-08-462-390B-8	Sequence 8, Appl
41	58	16.6	763	3	US-08-463-074B-8	Sequence 8, Appl
42	58	16.6	763	3	US-08-465-585C-8	Sequence 8, Appl
43	58	16.6	763	3	US-08-652-446-8	Sequence 8, Appl
44	58	16.6	788	2	US-07-728-215-27	Sequence 27, Appl
45	57.5	16.4	541	1	US-08-121-202-4	Sequence 4, Appl

## ALIGNMENTS

```
RESULT 1
US-07-955-905A-23
; Sequence 23, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SRO ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 587 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Gossypium hirsutum
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..587
; OTHER INFORMATION: /note= "Vicillin from G. hirsutum"
US-07-955-905A-23

Query Match 20.3%; Score 71; DB 1; Length 587;
Best Local Similarity 38.6%; Pred. No. 1.2;
Matches 17; Conservative 6; Mismatches 19; Indels 2; Gaps 1;

OY 16 CVRRCF--DRFWHPRLCQCRREERKKROERSRHEADRSGE:57
| | | | | : : : | | : | | | | |
Db 44 CRRRCFMDTRQCKRQOCCEESCKSOGYEKDDQRRRPDPQRRYE 87

RESULT 2
US-08-713-118-2
; Sequence 2, Application US/08713118
; Patent No. 6040436
; GENERAL INFORMATION:
; APPLICANT: Franco, Rodrigo
; APPLICANT: Sun Chen, Ai Ru
; APPLICANT: Sney, David J.
; TITLE OF INVENTION: NUCLEIC ACID ENCODING HUMAN NEURONAL
```

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      TITLE OF INVENTION: CALCIUM CHANNEL SUBUNITS  

      NUMBER OF SEQUENCES: 6  

      CORRESPONDENCE ADDRESS:  

        ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  

        STREET: Two Millitia Drive  

        CITY: Lexington  

        STATE: MA  

        COUNTRY: USA  

        ZIP: 02173-4799  

      COMPUTER READABLE FORM:  

        MEDIUM TYPE: Floppy disk  

        COMPUTER: IBM PC compatible  

        OPERATING SYSTEM: PC-DOS/MS-DOS  

        SOFTWARE: Patentln Release #1.0, Version #1.30  

      CURRENT APPLICATION DATA:  

        APPLICATION NUMBER: US/08/713,118  

        FILING DATE: 16-SEP-1996  

        CLASSIFICATION: 435  

        ATTORNEY/AGENT INFORMATION:  

          NAME: Mata, Elizabeth W.  

          REGISTRATION NUMBER: 38,236  

          REFERENCE/DOCKET NUMBER: ACC96-01  

          TELECOMMUNICATION INFORMATION:  

            TELEPHONE: 617-861-6240  

            TELEFAX: 617-861-9540  

          INFORMATION FOR SEQ ID NO: 2:  

            SEQUENCE CHARACTERISTICS:  

              LENGTH: 2337 amino acids  

              TYPE: amino acid  

              TOPOLOGY: linear  

            MOLECULE TYPE: protein  

      US-08-713-118-2
    
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Query Match                20.0%; Score 70; DB 3; Length 2337;  

Best Local Similarity     29.4%; Pred. No. 6.8;  

Matches   25; Conservative 7; Mismatches 13; Indels 40; Gaps 5;

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QY       4 NHHHGHKSSQCVRCEDRPWHPRCLEQ-----C 35
           ::::: :|||::: |::: |
Db       2048 HHHNH-----RCHRR-RDR---KQRLSLKGPSLSADMDGAPSAVGPGLPPGGCPGCC 2096
           ::::: :|||::: |||:
QY       36 REERERKRERSRHREADRGEGGS 60
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Db       2097 R-RERERRORSRSQERRQPSSSSS 2120

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RESULT      3
US-09-452-007-2
Sequence 2, Application US/09452007
Patent No. 6140485
GENERAL INFORMATION:
APPLICANT: Franco, Rodrigo
APPLICANT: Sun Chen, Ai Ru
APPLICANT: Suey, David J
TITLE OF INVENTION: NUCLEIC ACID ENCODING HUMAN NEURONAL
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millitia Drive
CITY: Lexington
STATE: MA
COUNTRY: USA
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/452,007
FILING DATE:

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1 CLASSIFICATION:
2 PRIOR APPLICATION DATA:
3 APPLICATION NUMBER: US/08/713.118
4 FILING DATE: 16-SEP-1996
5 ATTORNEY/AGENT INFORMATION:
6 NAME: Mata, Elizabeth W.
7 REGISTRATION NUMBER: 38,236
8 REFERENCE/DOCKET NUMBER: ACC96-01
9 TELECOMMUNICATION INFORMATION:
10 TELEPHONE: 617-861-9540
11 TELEFAX: 617-861-6240
12 INFORMATION FOR SEQ ID NO: 2:
13 SEQUENCE CHARACTERISTICS:
14 LENGTH: 2337 amino acids
15 TYPE: amino acid
16 TOPOLOGY: linear
17 MOLECULE TYPE: protein
18 US-09-452-007-2
19
20 Query Match 20.0%; Score 70; DB 3; Length 2337;
21 Best Local Similarity 29.4%; Pred. No. 6.8;
22 Matches 25; Conservative 7; Mismatches 13; Indels 40; Gaps 5;
23
24 QY 4 NHHNHGKSSQCVRCRDPRHQRPRCLEO-----C 35
25 :|||||:|||||:|||||:
26 Db 2048 HHHHH-----RCHRR-RDR---KORLEKGPISLADMDGAPSSAVGPIGPGEPTGC 2096
27 :|||||:|||||:|||||:
28 QY 36 REEREKRRERSRHEDDRSGEGSS 60
29 :|||||:|||||:
30 Db 2097 R-REERERQERSRQERQRPSSSS 2120
31
32 RESULT 4
33 US-08-933-750C-47
34 Sequence 47, Application US/08933750C
35 Patent No. 5932442
36 GENERAL INFORMATION:
37 APPLICANT: Lal, Preetl
38 APPLICANT: Hillman, Jennifer L.
39 APPLICANT: Bandman, Olga
40 APPLICANT: Shah, Purvi
41 APPLICANT: Au-Young, Janice
42 APPLICANT: Yue, Henry
43 APPLICANT: Guegler, Karl J.
44 APPLICANT: Corley, Neil C.
45 TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
46 NUMBER OF SEQUENCES: 98
47 CORRESPONDENCE ADDRESS:
48 ADDRESSEE: Incyte Pharmaceuticals, Inc.
49 STREET: 3174 Porter Drive
50 CITY: Palo Alto
51 STATE: CA
52 COUNTRY: USA
53 ZIP: 94304
54 COMPUTER READABLE FORM:
55 MEDIUM TYPE: Diskette
56 COMPUTER: IBM Compatible
57 OPERATING SYSTEM: DOS
58 SOFTWARE: FastSeq for Windows Version 2.0
59 CURRENT APPLICATION DATA:
60 APPLICATION NUMBER: US/08/933.750C
61 FILING DATE: September 23, 1997
62 CLASSIFICATION: 536
63 PRIOR APPLICATION DATA:
64 APPLICATION NUMBER:
65 FILING DATE:
66 ATTORNEY/AGENT INFORMATION:
67 NAME: Billings, Lucy J.
68 REGISTRATION NUMBER: 36,749
69 REFERENCE/DOCKET NUMBER: PP-0356 US
70 TELECOMMUNICATION INFORMATION:
71 TELEPHONE: 415-855-0555

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; FILING DATE: 13-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/868,354
; FILING DATE: 10-APR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/745,206
; FILING DATE: 15-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/620,250
; FILING DATE: 30-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/482,384
; FILING DATE: 20-FEB-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/603,751
; FILING DATE: 04-APR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US89/01408
; FILING DATE: 04-APR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/176,899
; FILING DATE: 04-APR-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L.
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-55038
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 238-0999
; TELEFAX: (619) 238-0062
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2509 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; FEATURE:
; OTHER INFORMATION: /product= "Alpha1a-1 subunit of
; OTHER INFORMATION: human calcium channel."
; US-08-149-097D-35

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Query Match 18.1% Score 63.5; DB 2; Length 2509;
Best Local Similarity 29.5%; Pred. No. 40;
Matches 18; Conservative 6; Mismatches 28; Indels 9; Gaps 2;

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OY 4 NHHHGGH-----KSGCVRRCEDRPMHQRPRCLCCREERERKROERSRHEADDRSGEG 58
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OY 59 S 59
Db 2273 S 2273

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RESULT 14
5223423-2
; Patent No. 5223423
; APPLICANT: FRANCHINI, GENOVEFFA,WONG-STAL, FLOSSIE;
; GALLO, ROBERT
; TITLE OF INVENTION: CHARACTERIZATION OF REPLICATION COMPETENT
; HUMAN IMMUNODEFICIENCY TYPE 2 PROVIRAL CLONE HIV-2 SBL/15Y
; NUMBER OF SEQUENCES: 4
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/331,212
; FILING DATE: 03-31-1989
; SEQ ID NO:2
; LENGTH: 3077
5223423-2

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Query Match 17.9% Score 62.5; DB 5; Length 3077;
Best Local Similarity 23.5%; Pred. No. 65;
Matches 16; Conservative 10; Mismatches 11; Indels 31; Gaps 2;

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OY 12 KSGCVRRCEDR-----PMHQRPR-----CLEOCREER 40
Db 605 KSGHIMANCPDRQAGFLGPGWKKPRNFVVPSSQGLTPAPPMDPADVLDLEKYMQGR 664
OY 41 EKROERSR 48
Db 665 KOREOROR 672

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RESULT 15
US-09-089-879-2
; Sequence 2, Application US/09089879
; Patent No. 611092
; GENERAL INFORMATION:
; APPLICANT: Williamson, Mark
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING DRT11 AND USES THEREOF
; FILE REFERENCE: 07334/078001
; CURRENT APPLICATION NUMBER: US/09/089,879
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 401
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-089-879-2

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Query Match 17.6% Score 61.5; DB 3; Length 401;
Best Local Similarity 54.3%; Pred. No. 9.7;
Matches 19; Conservative 6; Mismatches 5; Indels 5; Gaps 3;

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OY 18 RCEDRPMHQRPRCLCCRE-EEERKROERSRHEA 51
Db 114 KORER--QRQRELERKKEIEERKRR-KDRHER 144

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Job time: 1209 sec

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